VOLVO S60

VOLVO NAVIGATION SYSTEM (VNS)

OPERATING MANUAL

Volvo Navigation System (VNS)

VNS is a navigation system developed by Volvo, which is designed to help guide you to the destination of your choice.

The system includes features that enable you to set itineraries, search for certain types of facilities along your route, store special destinations, etc.

The system indicates the vehicle's current location, and shows part or all of the route to your destination, depending on settings you have made. If at any time you should decide to deviate from the route originally set by the system, a new route to the destination will automatically be calculated.

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Introduction

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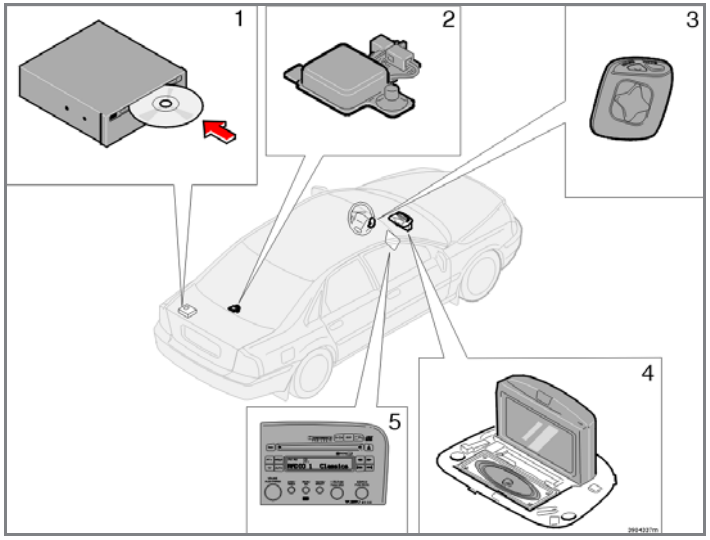
Overview - location of VNS and related components



1. Main unit (DVD player)

The system's DVD player, located behind a panel on the left side of the trunk/cargo area, is only intended for Volvo's map discs.

The navigation system:

- Calculates the vehicle's location
- Calculates a route to the selected destination
- Provides voice guidance

2. GPS

(Global Positioning System receiver)

The navigation system uses GPS signals to determine the vehicle's speed, and a gyroscope to determine the vehicle's current location and direction.

3. Keypad (navigator)

The keypad enables you to navigate through the menus and make settings/selections.

4. Screen

The screen displays the maps and provides detailed information on intersections, distances, etc.

5. Audio system

The audio system's speakers in the front doors are used to provide guidance instructions.

Contents of the DVDs

Although the entire network of roads is shown on both DVDs, detailed information is only available on the disc intended for the geographic area in which the destination is located.

The system will prompt you to change DVDs when necessary. If the disc is not changed, map information will still be displayed, but detailed information such as the location of gas stations or other points of interest will not be available.

Your navigation system's maps and data are static. This means that as the network of roads and other facilities is expanded, the DVD will not automatically reflect these changes, and certain information on the DVDs may not be verified.

Updated DVDs with navigation system map and facility information are produced on a regular basis. Please contact your authorized Volvo retailer for more information about availability.

⚠ WARNING!

- Never use the navigation system or any other feature in your vehicle in a way that distracts you from the task of driving safely.
- Distraction can lead to a serious accident.
- Set and make changes in your navigation system only with the vehicle parked.
- Be aware of the current traffic situation.
- Always comply with relevant traffic regulations.

Screen care

Clean the display screen with a soft, non-static cloth or paper towel and a mild window cleaning agent.
Never use petroleum based solvents or abrasive substances when cleaning the screen.

DVD care

- When changing discs, make sure that they are kept free of oil, grease and other impurities.
- The discs must not be exposed to moisture.
- The discs must be kept in their packaging when not in use. Avoid storing discs in excessive heat, direct sunlight or in a dusty environment.

Upgrading the navigation system software/map DVD

The navigation system DVD player is located behind a panel on the left side of the trunk/cargo area, see the illustration on page 6.

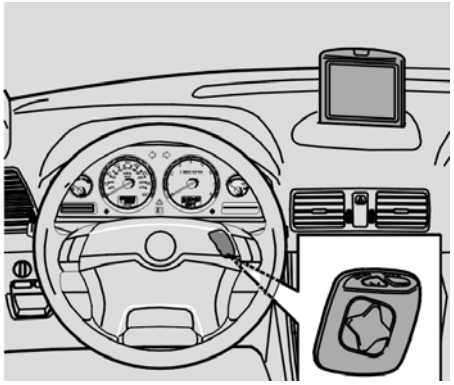
To upgrade or change the navigation system software/map DVD:

1. With the ignition switched on, press the Eject button and open the cover to remove the DVD.
2. Insert the new DVD.

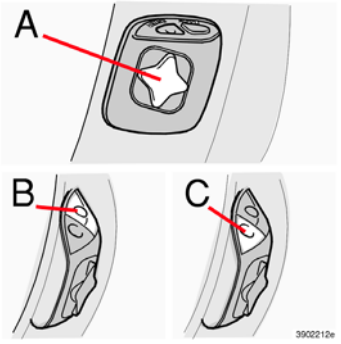
If the DVD contains new software, the following text will be displayed:
Loading new program – please wait.
The entire procedure will take approximately 5 minutes. When the procedure has been completed, the introduction screen will be displayed.

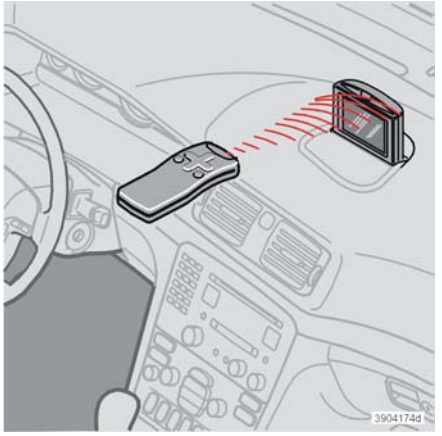
Keypad (Navigator) and remote control

Keypad's location on the steering wheel



Navigator





A. NAVIGATOR

Press **UPP, DOWN, RIGHT** or **LEFT** to choose between the different menu options, traffic messages etc.

B. BACK

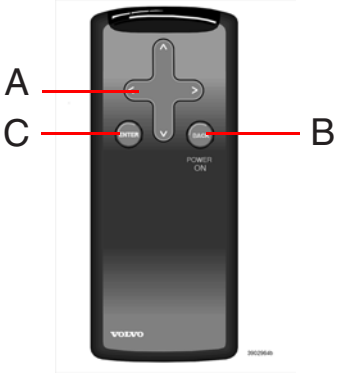
Press **BACK** to return to the previous menu or to undo a choice.

C. ENTER

Press **ENTER** to confirm options or to activate different menus.

NOTE: The keys on the remote control have the same functions as the keypad.

Remote control



IR (infrared) port

Point the remote control toward the IR port on the upper edge of the screen.

NOTE: If the remote control does not function properly, check the batteries (AAA or R03).

Getting started

Turning on navigation system

The ignition key must be in at least position I. Press any of the buttons on the steering wheel keypad or on the remote control to activate the system. It may take several seconds to establish the vehicle's location and direction.

Turning off the navigation system

Use the **NAVIGATOR** to go to [*Shut down*] in the main menu and press **ENTER**.

NOTE: The system can also be used when the engine is switched off. Keep in mind to turn the ignition key to 0, or remove it to avoid unnecessary battery drain.

Basic functions

NAVIGATOR - move up, down, left, or right in the menus/selections.

ENTER - Confirm or activate a selection.

BACK - move back through menus, or undo selections/spelling, etc.

Menu structure

Each entry in the main menu is comprises a series of submenus/selections.

Using this manual

The manual is divided into chapters describing the various features and functions of the navigation system. A page dealing with common questions and answers, and an index, can be found at the end of the manual.

Navigating the menus

Menu selections in this manual are enclosed in brackets, e.g. [*Destination*]. Menus are listed without brackets, e.g. *Map mode*.

The path to a particular menu selection is described as follows, e.g.: *Navigation* [*map mode*] *Address*.

The descriptions in the manual assume that you are using the keypad in the steering wheel, but the keys remote control functions in the same way.

Settings

[*Settings*] in the main menu give you access to settings menus for the system or navigation.

Demo

The navigation system contains a function that demonstrates guidance to a destination.

NOTE: The demo can only be run when the vehicle is at a standstill. For more information, see page 54.

⚠ WARNING!

Navigating safely

Always use good judgment when following navigation system guidance, and do not follow guidance that seems contrary to your own best judgment.

Your navigation DVD contains some information that was not verified at the time your DVD was produced. Unverified data may be inaccurate. If you are guided through an area of unverified data, the guidance provided by your navigation system may be incorrect.

Your navigation DVD may not contain maps or data for every road, residence, or point of interest in your area. Volvo cannot be responsible for the accuracy or completeness of data, maps, or routing guidance presented by your navigation system.

Map image

1. Direction to take at the next guidance point
2. Distance to, and name of the next guidance point
3. Destination
4. Road sign information
5. Next navigation point
6. Current position of the car
7. Starting point
8. Facility symbol for city center
9. Remaining distance and time to destination
10. Map scale
11. Name of street on which the car is currently traveling
12. Facility symbol for Volvo retailer
13. Route
14. Intermediate destination
15. Stored location
16. Direction to the destination
17. Compass

Road types

Freeway - green
Main road - red
Secondary main road - brown
Normal road - dark gray
Local road - dark green

Compass

The red tip of the compass needle points in a northerly direction. The blue destination arrow (16) on the outer ring of the compass points toward your destination.

You can choose to show or hide the compass and destination arrow in [*Screen*] in the *Settings* menu.

Menu structure

Start/shut down the system	**12**
Help texts	**12**
Main menu	**13**
Main menu with icons	**13**
Destination menu	**14**
Map scale	**14**
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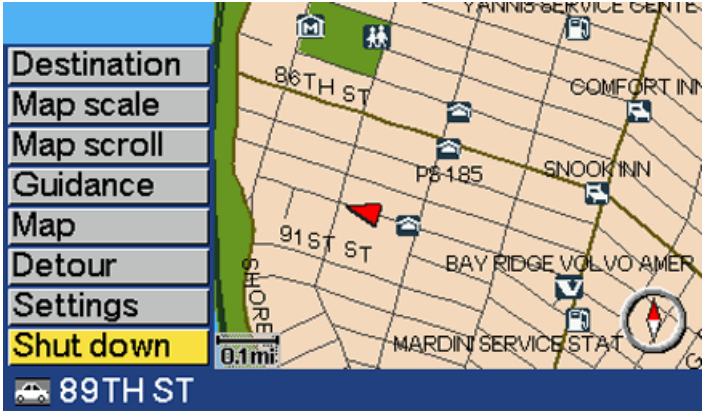
Map menu	**16**
Detour menu	**16**
Settings menu	**17**

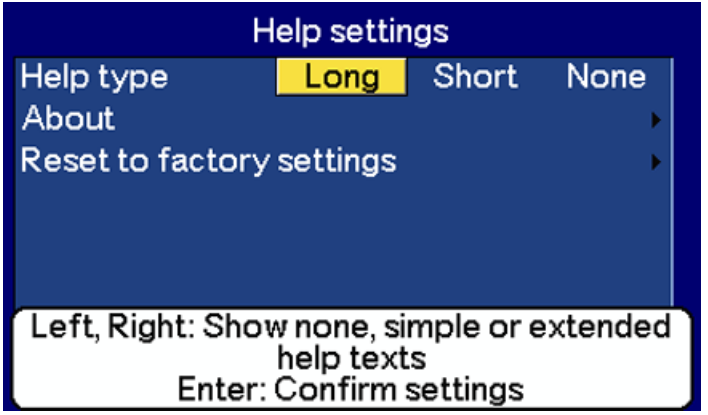


Start/shut down the system

[*Shut down*]

Starting the system: Turn the ignition key to position I or II, then press **ENTER, BACK** or **NAVIGATOR**.

Shut down the system: Select *Shut down* from the main menu and press **ENTER**.
If the system is in operation when the car's ignition is switched off, it restarts when the ignition is turned on. If the system is shut down when the car's ignition is switched off then it will remain shut down when the ignition is turned on.



Help texts

[*Settings*] [*Help*]

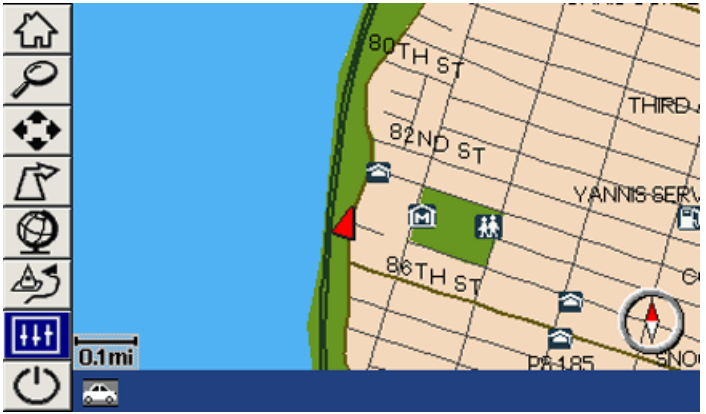
The help texts give abbreviated information about the functions. The display options for showing help texts are *Long, Short* or *None*. Scroll **RIGHT** or **LEFT** to the desired option and press **ENTER**.

The white help text panel is displayed when an option is selected and then disappears automatically after a few seconds.

Main menu

[*Destination*]

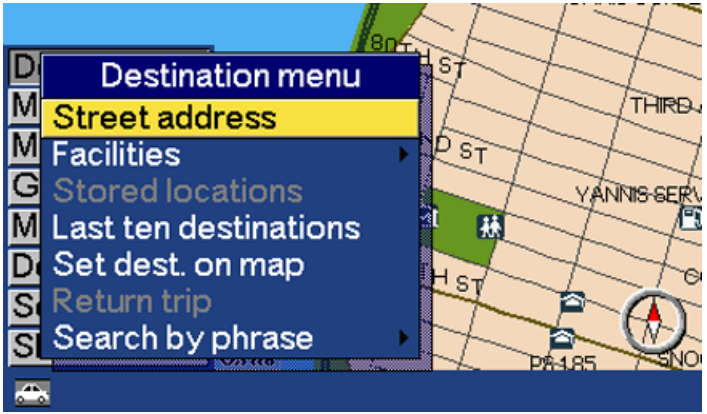
The main menu and the various submenus provide access to the system's functions. It is always possible to return to the main menu, irrespective of which screen image is displayed, by pressing **BACK** one or more times. The main menu is displayed for several seconds and then disappears automatically if a menu option is not selected.



Main menu with icons

[*Settings*] [*Screen*] [*First menu*] [*Text/icons*]

The main menu can be displayed with in the form of icons or as text.



Destination menu

[*Destination*] [*Street address*]

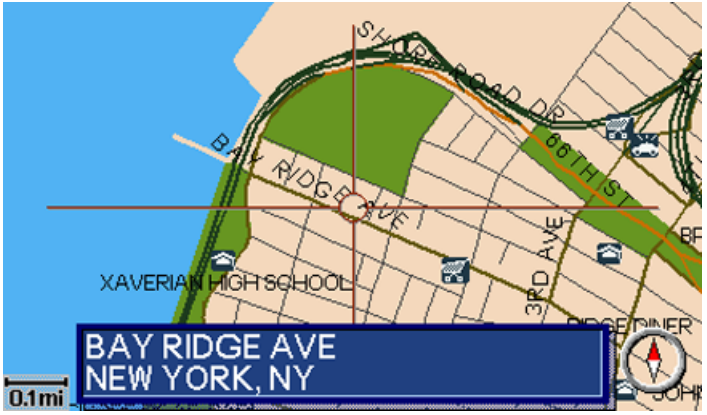
There are several search options in the destination menu for specifying the destination. Select the option in the menu using **UP** or **DOWN** and press **ENTER.** Press **BACK** to return to the main menu.

Read more on the different types of destination and search paths on page 20.

Map scale

[*Map scale*]

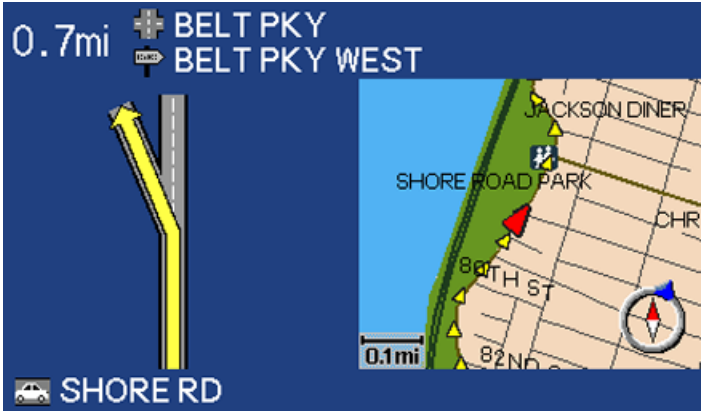
Scroll **UP** or **DOWN** using **NAVIGATOR** to change the map's scale (degree of detail) for a given area (see page 46). Confirm with **ENTER**.



Map scroll

[*Map scroll*]

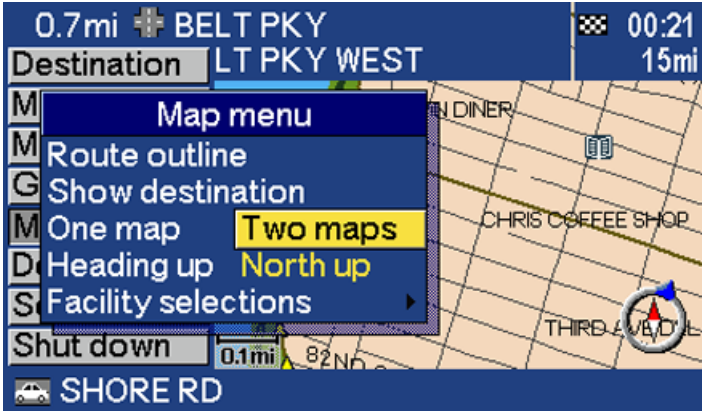
Using the **NAVIGATOR** the pointer moves freely on the map, for example to select a destination (see page 31). The name of the location to under the pointer is displayed on the lower part of the map.



Guidance

[*Guidance*]

Select *Guidance* from the main menu to repeat voice guidance (see page 39).



Map menu

[*Map*]

In the Map menu, it is possible to choose between displaying one or two maps, or between displaying the map in the *Heading up* or with *North up*. See also the chapter Map at page 46.

Detour menu

[*Detour*]

From the Detour menu it is possible to avoid sections of the calculated route, such as road construction. The system then calculates an alternate route (see page 40).

Settings menu

[*Settings*]

The Settings menu provides access to the system's various settings (see page 52).

Destination

Destination	**20**
State (province)/city	**21**
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Store a location	**33**
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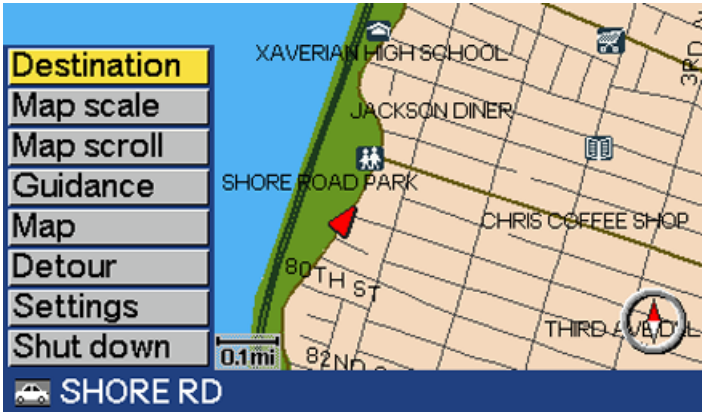
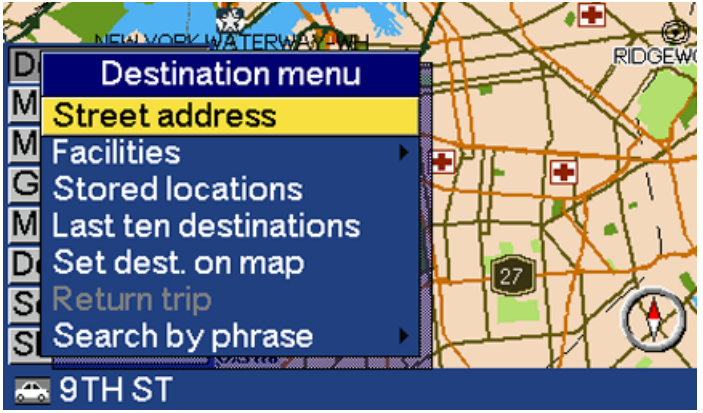




Destination

Specify an address as destination

[*Destination*]

Select *Destination* using **UP** or **DOWN** and press **ENTER** to access the destination types menu.

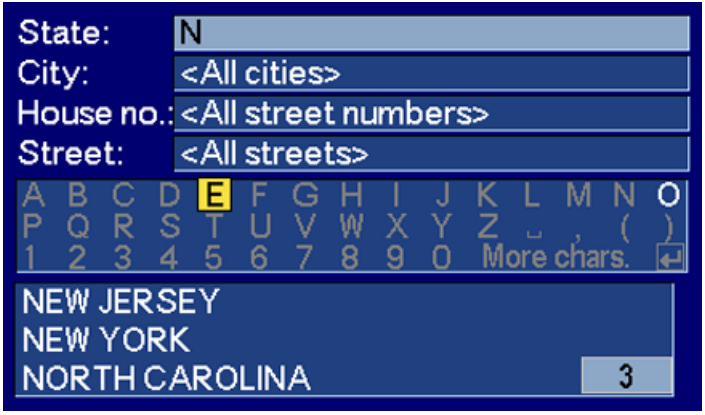
NOTE! If a destination has already been specified, the menu with destination types is accessed as follows: [*Destination*] [*Add to itinerary*]

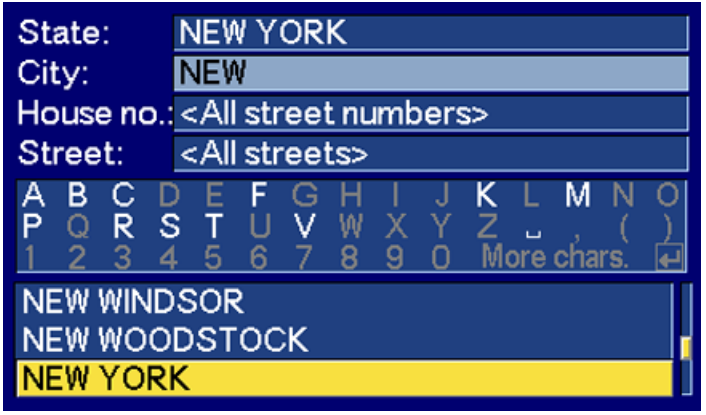
Destination types

[*Destination*] [*Street address*]

Select *Street address* using **UP** or **DOWN** and press **ENTER**.

***Street address*:** Specify a destination by entering letters.
***Facilities*:** Specify a facility as destination. Choose e.g. a hotel or a restaurant (see page 27).
***Stored locations*:** Choose a previously stored location as a destination (see page 34).
***Last ten destinations*:** Select one of the last ten specified destination (see page 32).
***Set destination on the map*:** Specify a location as a destination directly from the map (see page 31).
***Return trip*:** Choose the most recent location (the most recent point of departure) from which *Start guidance* was used (see page 32).
Search by phrase: Search by part of the name of a street or facility (see page 25).





State (province)/city

Specify state (province)/city as a destination

[*Destination*] [*Street address*] [*State*]

State and *City* are preset and correspond to the position of the last destination entered.

Scroll to *State* or *City* using **UP** or **DOWN** and press **ENTER.** Choose the state or city desired by entering letters or scrolling **DOWN** and choosing directly from the menu list.

The scroll bar at the right of the screen indicates that there are additional alternatives in the list that are not currently visible in the window. The number in the lower right corner indicates the total number of alternatives.

Specify state (province)/city or select from the list

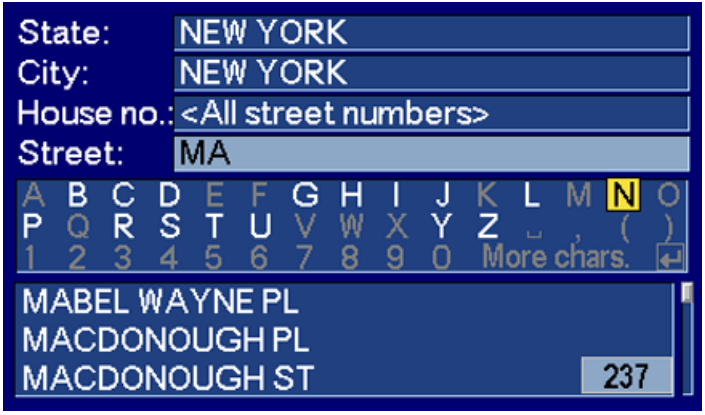
[*Destination*] [*Street address*] [*City*]

Select letters using the **NAVIGATOR** and press **ENTER** (when there are no further options the system fills in the remaining letters).

A list of the first three states (provinces)/cities matching the letters entered is displayed at the lower section of the screen. The scroll bar at the right of the screen indicates that there are additional alternatives in the list that are not currently visible in the window.
Scroll **DOWN** and choose directly from the menu list. Select using **UP** or **DOWN** and press **ENTER**.

Return to the letter/number section of the screen by pressing **BACK.** Delete the letters entered one at a time by pressing **BACK**.

The definition of a city or area may vary from state to state, and also within the same state. In some cases, it may be a metropolitan area and in others an particular suburb.



Street address

Specify a street address for the destination

[*Destination*] [*Street address*]

Select letters using the **NAVIGATOR** and press **ENTER**.

It is also possible to search for street addresses in the entire state without specifying a particular city. Scroll **UP** to *City* and press **ENTER.** Then scroll to *Street* and press **ENTER**. Enter a street name.

Return to the letter/number section of the screen by pressing **BACK.** Delete the letters entered one at a time by pressing **BACK**.

The system does not list street addresses for small towns. However, it is always possible to set the town center as a destination.

The scroll bar at the right of the screen indicates that there are additional alternatives in the list that are not currently visible in the window. The number in the lower right corner indicates the total number of alternatives.

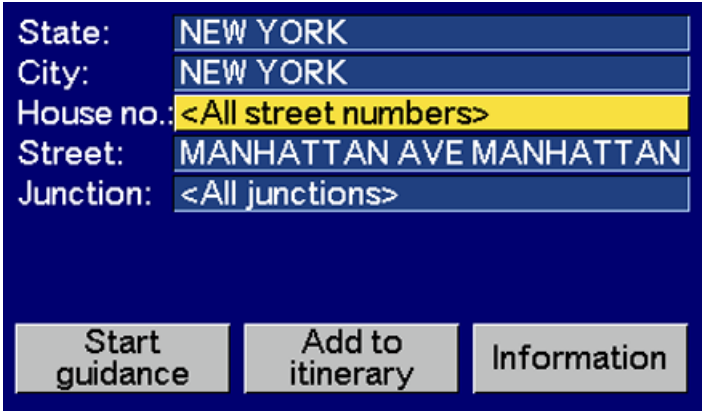
Choose the street address from the list

[*Destination*] [*Street address*] [*Street*]

A list of the first three addresses matching the letters entered is displayed on the lower part of the screen. The scroll bar at the right of the screen indicates that there are additional alternatives in the list that are not currently visible in the window.

Choose between the addresses found by scrolling **DOWN** to the list. Select address using **UP** or **DOWN** and press **ENTER**.

Return to the letter/number section of the screen by pressing **BACK**.



Specify street number or junction

[*Destination*] [*House no.*] [*Street*]

If the selected address has a street number then this can also be used to obtain a more precise navigation. An intersection (junction) can also be used instead of a street number. Scroll to the line for *House no.* or *Junction* and press **ENTER**.

It is also possible to scroll directly **DOWN** to *Start guidance* and press **ENTER**.

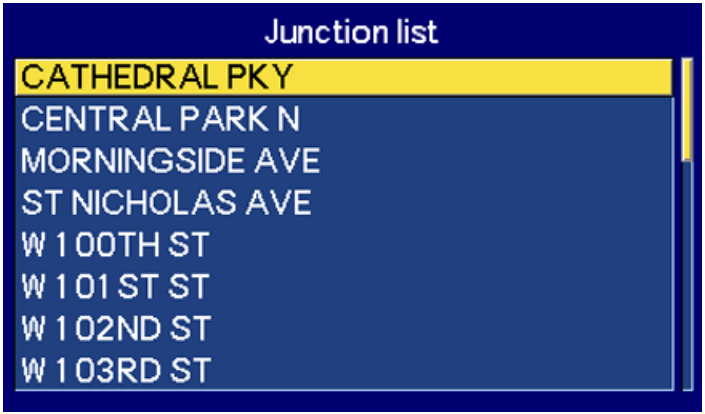
State: NEW YORK
City: NEW YORK
House no.:
Street: MANHATTAN AVE MANHATTAN
A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z ␣ , ( )
1 2 3 4 5 6 7 8 9 0 More chars.
Start guidance
Add to itinerary
Information

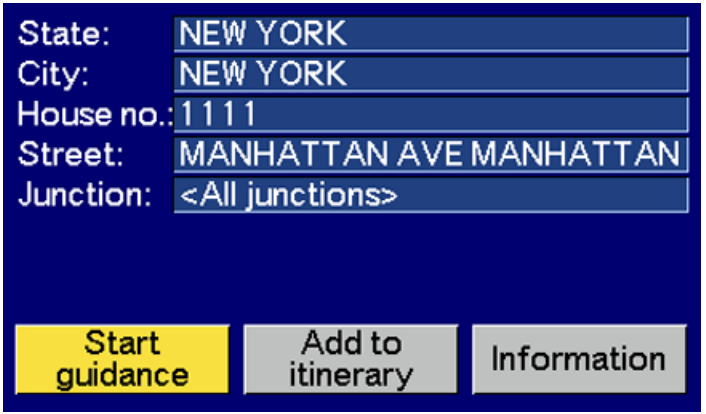
Specify street number

[*Destination*] [*House no.*] [*Street*]

Scroll to *House no.* and press **ENTER.** The existing street number is displayed on the digit line. Select digits using **RIGHT** or **LEFT** and press **ENTER**.

Return to the letter/number section of the screen by pressing **BACK**.





Select junction

[*Destination*] [*Street address*] [*Junction*]

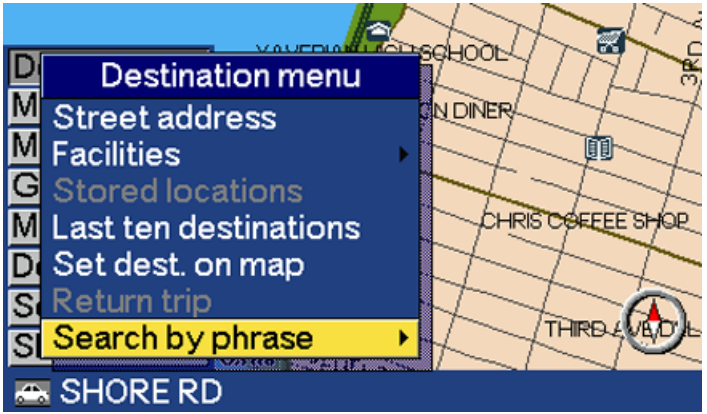
Scroll **DOWN** to *Junction* and press **ENTER.** The roads that intersect the selected street are displayed in a list. Select from the streets using **UP** or **DOWN** and press **ENTER**.

Start guidance

[*Destination*] [*Street address*] [*Junction*] [*Start guidance*]

If neither the street number nor the intersection is specified, the system will guide you to a central point on the selected street.

***Start guidance*:** Starts guidance to the destination.
***Add to itinerary*:** Puts the address in the itinerary and provides the option to enter additional destinations.
Information: Provides details about the destination.



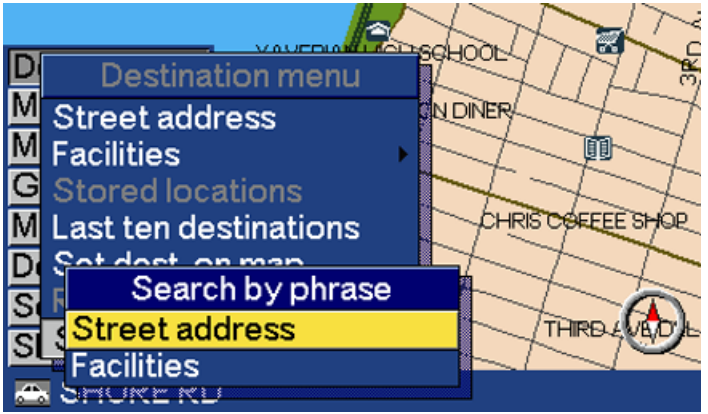
Search by phrase

Street address/facilities

[*Destination*] [*Search by phrase*]

Search by part of a street name or a facility.
Select *Search by phrase* using **UP** or **DOWN** and press **ENTER**.

Read more on the different types of destination and search paths on page 20.



Street address

[*Destination*] [*Search by phrase*] [*Street address*]

Select *Street address* using **UP** or **Down** and press **ENTER**.

Start search by phrase

[*Destination*] [*Search by phrase*] [*Street address*] [*Street*]

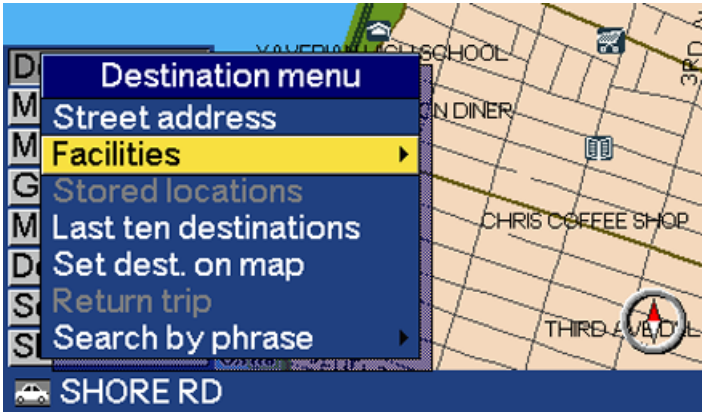
Enter the part of the name you know using the **NAVIGATOR** and **ENTER.** Scroll **DOWN** to *Start search* and press **ENTER**.

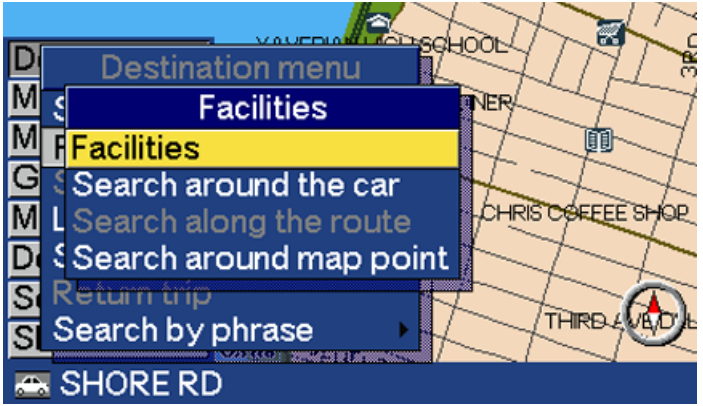
Select option

[*Destination*] [*Search by phrase*] [*Street address*] [*Street*] [*Start search*]

Scroll using **UP** or **DOWN** to the desired option and press **ENTER.** The scroll bar at the right of the screen indicates that there are additional alternatives in the list that are not currently visible in the window. The number in the upper left corner indicates the total number of alternatives.

Press **BACK** to return to the previous screen.





Facilities

Specify a facility as destination

[*Destination*] [*Facilities*]

Facilities are a collective name for gas stations, hotels, restaurants, Volvo retailers etc.

Select *Facilities* using **UP** or **DOWN** and press **ENTER** to obtain a submenu with different options.

Read more on the different types of destination and search paths on page 20.

Search options for facilities

[*Destination*] [*Facilities*] [*Facilities*]

Select *Facilities* using **UP** or **DOWN** and press **ENTER**.

***Facilities*:** Enter the name of a facility, or choose between types of facility from the list in the menu. The list only displays the facilities in the selected city or area.
***Search around the car*:** The system searches in a circle of at least 1 mile (2 km) radius. If fewer than 40 facilities are found, the radius is increased to a maximum of approximately 65 miles (100 km).
***Search along the route*:** The system searches an area 1 mile (approx. 2 km) wide, and approximately 65 miles (100 km) ahead.
***Search around map point*:** The system searches in the same way as *Search around the car*, but the is centered around a chosen point on the map.

Facility types

Specify facility type

[*Destination*] [*Facilities*] [*Facilities]* [*Type*]

Select letters using the **NAVIGATOR** and press **ENTER** or scroll **DOWN** and choose a facility type directly from the menu list. Select using **UP** or **DOWN** and press **ENTER**.

There is also the option to search by facilities throughout the whole country without specifying a particular city. Scroll **UP** to *City* and press **ENTER.** Scroll to *Type* or *Name* and press **ENTER.** Select letters using the **NAVIGATOR** or scroll **DOWN** and choose a facility directly from the list.

Return to the character chart using **BACK.** Delete the letters entered one at a time by pressing **BACK**.

State:
NEW YORK
City:
NEW YORK
Type:
AIRPORT
Name:
A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z
1 2 3 4 5 6 7 8 9 0 More chars.
JOHN F KENNEDY INT'L AIRPORT
JOHN F KENNEDY INT'L-JFK EXPY
JOHN F KENNEDY INT'L-VAN WYCK EX

Specify facility name

[*Destination*] [*Facilities*] [*Facilities*] [*Name*]

Select letters using the **NAVIGATOR** and press **ENTER** or scroll **DOWN** and choose a facility directly from the menu list.

Return to the character chart using **BACK.** Delete the letters entered one at a time by pressing **BACK**.

State:
NEW YORK
City:
NEW YORK
Type:
Name:
<All names>
A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z
1 2 3 4 5 6 7 8 9 0 More chars.
RECREATION AREA
RESTAURANT
SCHOOL

Sub-categories

[*Destination*] [*Facilities*] [*Facilities*] [*Type*]

Sub-categories are available for certain facilities (gas stations, restaurants, hotels and parking areas) there are sub-categories. Choose a restaurant for example and press **ENTER**.

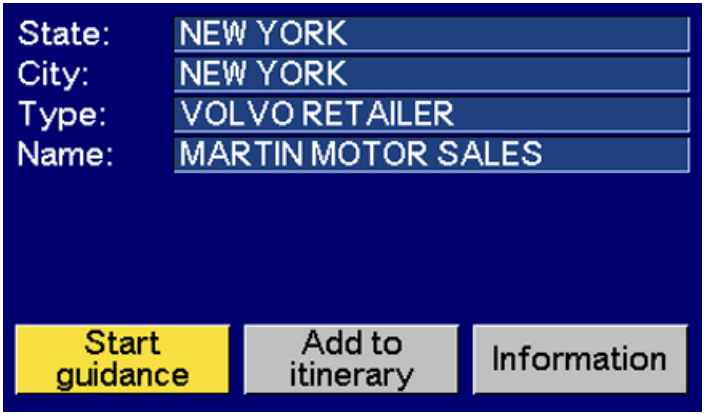
Specify category

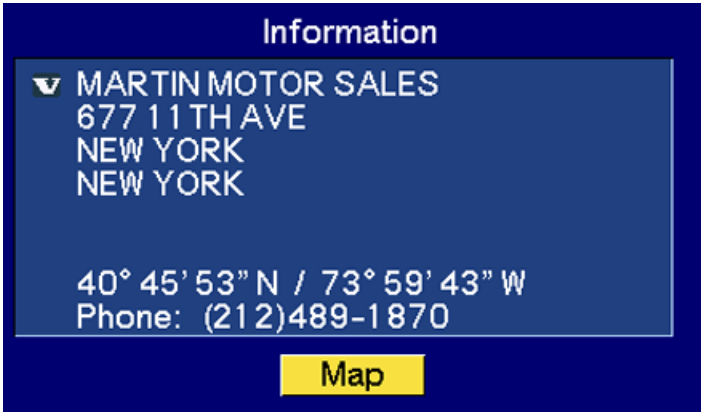
[*Destination*] [*Facilities*] [*Facilities*] [*Type*]

The different sub-categories there are for restaurants are displayed.

Select letters using the **NAVIGATOR** and press **ENTER** or scroll **DOWN** and choose a subcategory directly from the menu list. Select *ALL TYPES* to be able to see all facilities irrespective of category. Choose among the options using **UP** or **DOWN** and press **ENTER.**
The restaurants included in the category are displayed in the list. Scroll **DOWN** to the required option and press **ENTER**.

Return to the character chart using **BACK**.





Facility and guidance

[*Destination*] [*Facilities*] [*Facilities*] [*Start guidance*]

***Start guidance*:** Starts guidance to the facility.
***Add to itinerary*:** Puts the facility in the itinerary and provides the option to enter further destinations.
Information: Gives details of the facility.

Information on the facility

[*Destination*] [*Facilities*] [*Facilities*] [*Information*]

The address, coordinates and telephone number of the facility are displayed under information. Select map and press **ENTER** to view the location of the facility on the map.

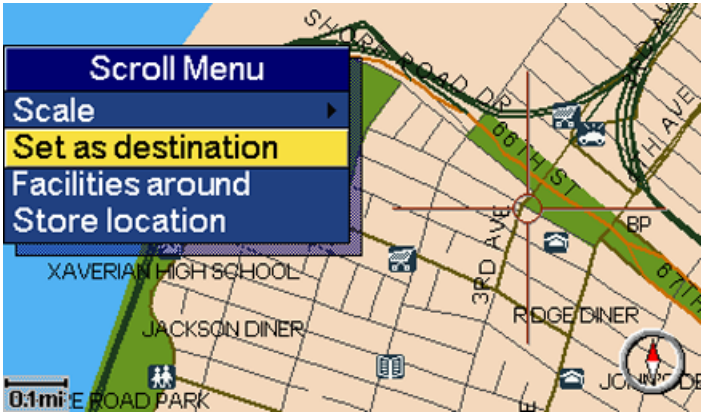
Destination on the map

Specify a destination on the map using the NAVIGATOR

[*Map scroll*]

Select *Map scroll* using **UP** or **DOWN** and press **ENTER.**
Using the **NAVIGATOR** the pointer can be moved freely over a large area of detailed scale. The center of the pointer specifies the new location on the map. The address under the pointer is displayed on the lower part of the screen.

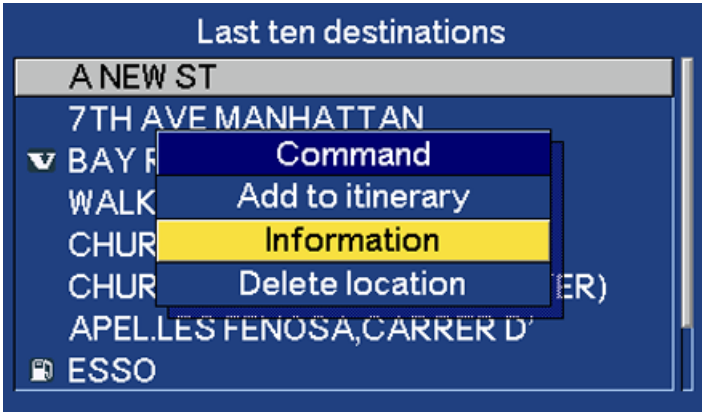
NOTE! The function can also be obtained via *Destination* in the main menu. Read more on the different types of destination and search paths on page 20.



Map scrolling menu

[*Map scroll*]

Move the pointer using the **NAVIGATOR** to the desired position on the map and press **ENTER** to obtain the map scrolling menu. Scroll using **UP** or **DOWN** to *Select as destination* and press **ENTER**.



Last ten destinations

Entered destination

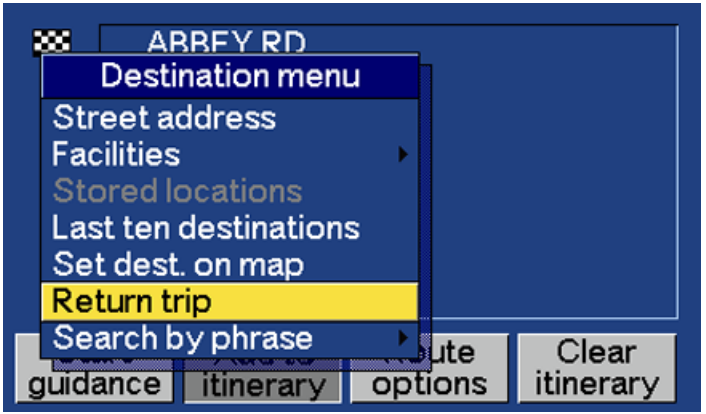
[*Destination*] [*Last ten destinations*]

Select *Last ten destinations* and press **ENTER** to view the last ten destinations. The scroll bar at the right of the screen indicates that there are additional alternatives in the list that are not currently visible in the window.

Select destination using **UP** or **DOWN** and press **ENTER** or **RIGHT** to access the submenu.

Add to itinerary: Puts the destination in the itinerary and provides the option of entering further destinations.
***Information*:** Provides details about the destination.
***Delete location*:** Deletes the destination.

Read more on the different types of destination and search paths on page 20.

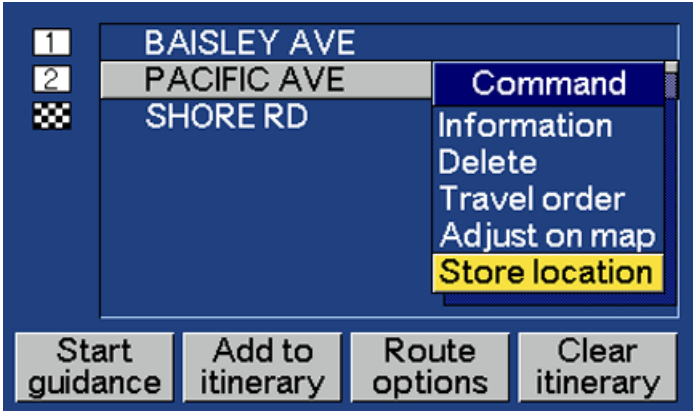


Return trip

Back to starting point

[*Destination*] [*Add to itinerary*] [*Return trip*]

Scroll using **UP** or **DOWN** to *Return trip* and press **ENTER.** Select *Start guidance* and press **ENTER.**
The system starts guidance back to the location at which *Start guidance* was most recently chosen.



Store location
PACIFIC AVE
Enter a name and select a symbol:
PACIFIC AVE
A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z ␣ , ( )
1 2 3 4 5 6 7 8 9 0 More chars.
Store location

Store a location

Save a specified destination

[*Destination*]

A destination can be stored so that it does not have to be entered again. Up to one hundred destinations can be stored.

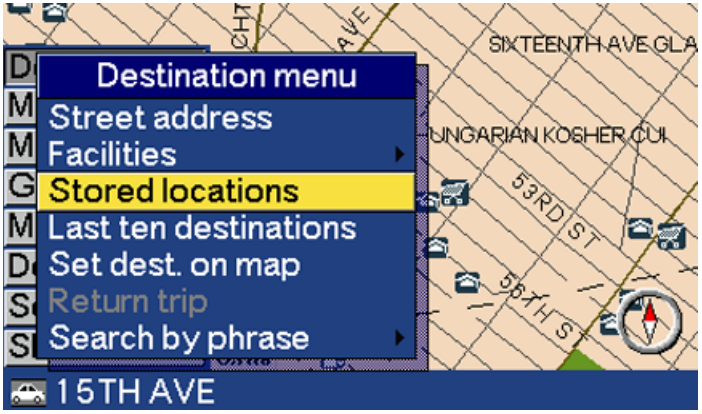
Scroll to a destination using **UP** or **DOWN** and press **ENTER** or **RIGHT** to access the submenu. Select *Store location* using **UP** or **DOWN** and press **ENTER**.

It is also possible to store a location using the *Map scroll* function (see page 47).

Symbols and names

[*Destination*] [*Store location*]

The stored locations are marked on the map by symbols. Scroll **UP** to the symbols to select and press **ENTER.** The name of the stored destination is indicated automatically. The original name can be deleted using **BACK** and a new name specified.
Scroll to *Store location* using **UP** or **DOWN** and press **ENTER**.



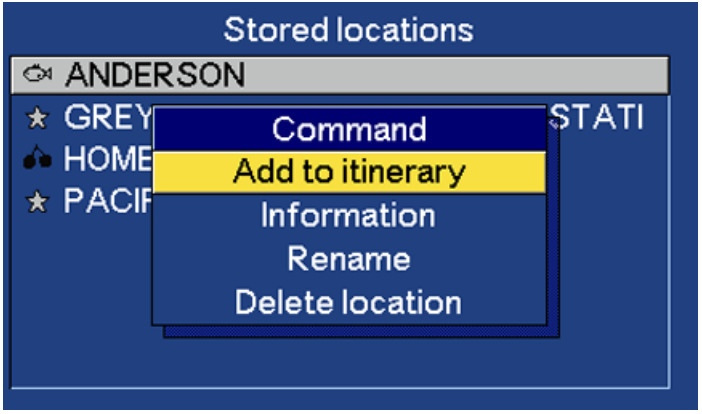
Stored locations

Saved destinations

[*Destination*]

Select *Stored locations* using **UP** or **DOWN** and press **ENTER**. A stored location is a destination saved earlier (place of work, favorite restaurant, rest area, etc.).

Read more on the different types of destination and search paths on page 20.



Submenu for stored locations

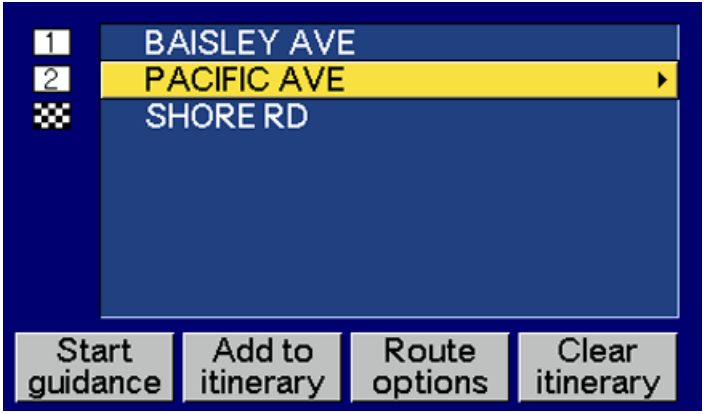
[*Destination*] [*Stored locations*]

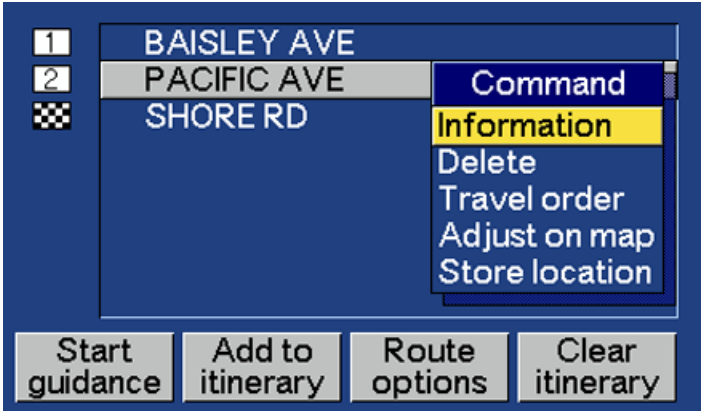
Choose between the stored locations using **UP** or **DOWN** and press **RIGHT** to obtain the submenu.

Add to itinerary: Adds the stored location to the itinerary.
***Information*:** Gives details on the stored location.
Rename: Change icon or name of stored location.
Delete location: Deletes a stored location.

Itinerary and guidance

Add to itinerary	**36**
Delete itinerary	**37**
Guidance – calculating a route	**37**
Guidance – intersection	**38**
Guidance – list	**38**
Guidance - arrow navigation	**39**
Guidance – voice message	**39**
Detour/ alternate routes	**40**





Add to itinerary

Destination/intermediate destination

[*Destination*]

Enter an itinerary with several intermediate destinations to avoid having to add several intermediate destinations during the trip. Up to seven intermediate destinations and one final destination can be specified.

***Start guidance*:** Starts guidance to the destination.
***Add to itinerary*:** Provides the option to enter further destinations.
***Route options settings*:** Sets route setting priorities
***Clear the itinerary*:** Delete the itinerary.

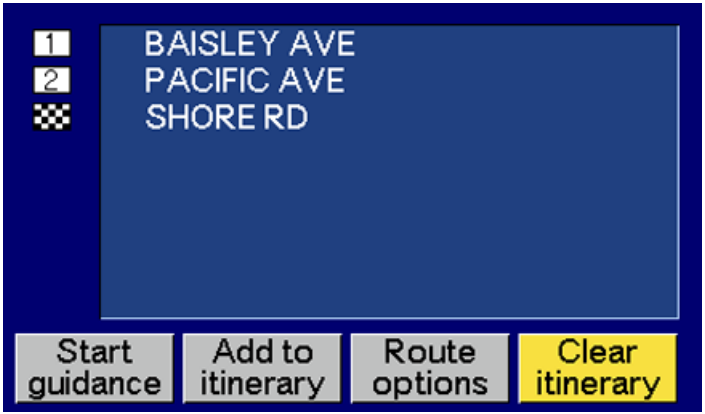
Arrange the itinerary

[*Destination*]

Scroll using **UP** or **DOWN** to desired destination and press **ENTER** or **RIGHT** to obtain the submenu.

***Information*:** Provides details on the destination.
***Delete*:** Deletes the destination from the itinerary.
Travel order: Change the position in the list of the destination.
***Adjust on map*:** Change the destination location on the map.
Store location: Store the destination.

Select options in the submenu using **UP** or **DOWN** and press **ENTER**.



Delete itinerary

[*Destination]* [*Clear itinerary*]

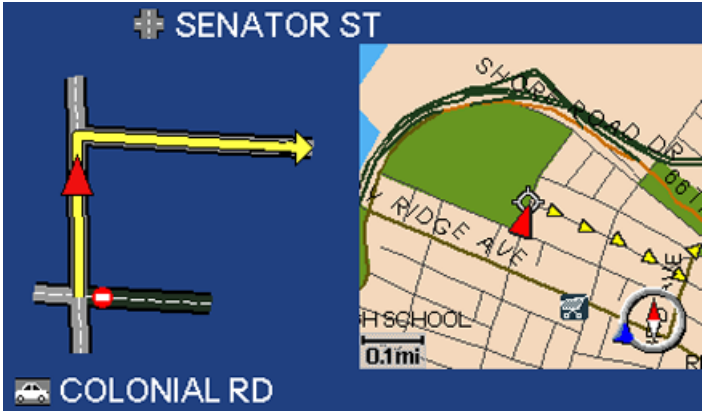
Select *Clear itinerary* and press **ENTER** to delete the entire itinerary. Destinations deleted remain in the *Last ten destinations* (see page 32).

Guidance – calculating a route

[*Destination*] [*Start guidance*]

When *Start guidance* is selected, the system starts to calculate the route and the time/distance to the destination (during which time a yellow-orange symbol is displayed at the top of the screen).

If you leave the planned route during the course of the trip, the system automatically calculates a new route to the set destination.



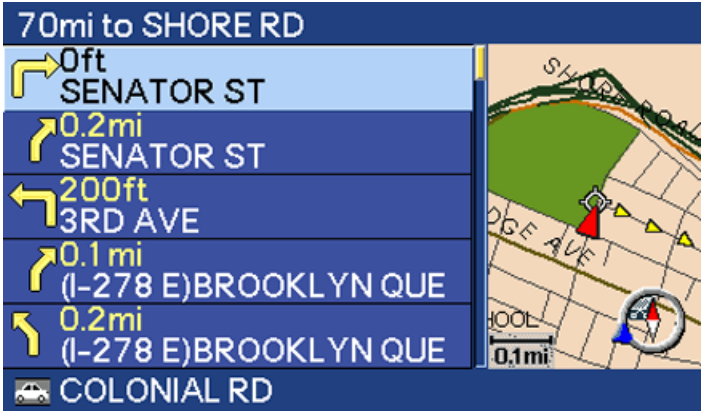
Guidance – intersection

[*Guidance*]

As you approach a guidance point, voice guidance is provided in good time regarding the distance and the action to take at the intersection/ guidance point. At the same time a detailed map is displayed. The voice guidance is repeated as you approach the guidance point.

At the top of the map, the name of, and distance to the next turning point are displayed. Road sign information is displayed on the line below. When there is a road number and exit number, or exit name, these are also displayed. The current position is also displayed on the lower part of the map.

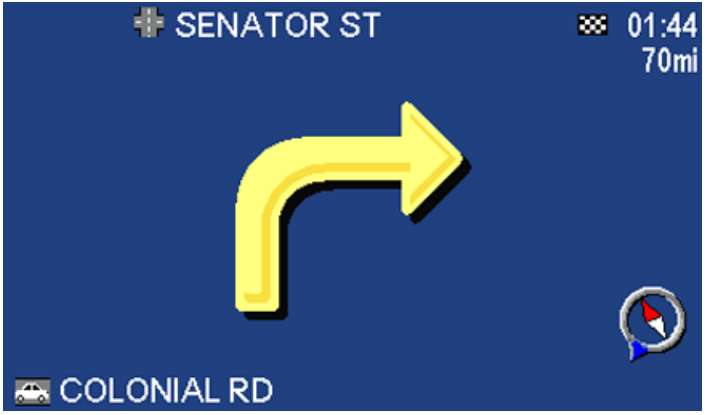
NOTE! In order for voice guidance to be provided, this option must be selected in system settings (see page 52).



Guidance – list

[*Map*] [*Route outline*]

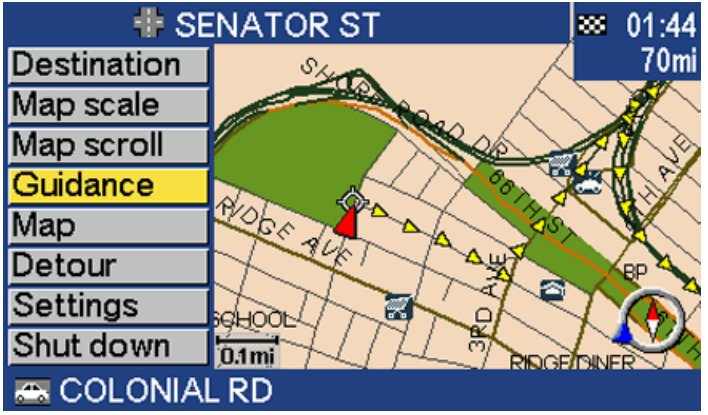
The next guidance point is marked in a light blue panel. Below this follows a list of the remaining guidance points. The destination is displayed at the bottom of the screen. In addition to the road name, the distance between the guidance points is displayed along with an arrow indicating the direction of the next turn. The guidance points are deleted as they are passed. If there is a deviation from the specified route the system calculates a new one.



Guidance - arrow navigation

[*Settings*] [*Screen*] [*Map*] [*Show/Hide*]

Guidance can be displayed without a map. The system instead displays an arrow indicating the direction of the next turn.
Select *Hide* using **LEFT** or **RIGHT** and press **ENTER**.

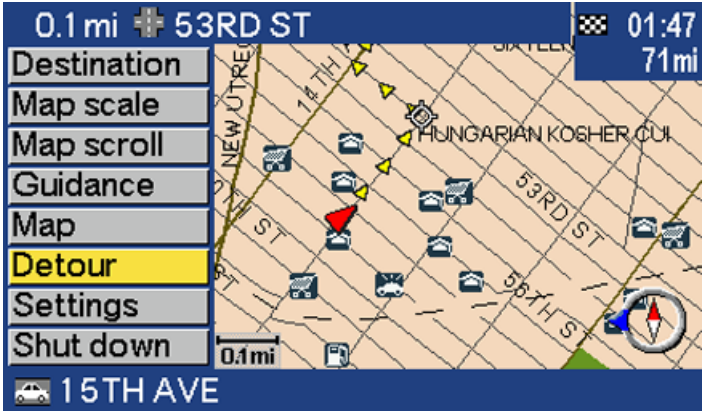


Guidance – voice message

[*Guidance*]

Select *Guidance* using **UP** or **DOWN** and press **ENTER** to obtain voice guidance. Also select *Guidance* to repeat a voice guidance message.
If the distance to the next guidance point is greater than 50 km, the message: “Continue straight ahead”, is given.
Press **ENTER** to repeat a voice guidance message.

NOTE! The system always provides voice guidance irrespective of which menu is active. In order for voice guidance to be provided, this option must be selected in system settings (see page 52).



Detour/ alternate routes

Avoid part of the route

[*Detour*]

Select *Detour* using **UP** or **DOWN** and press **ENTER.**
Using the *Detour* function, the system can be asked to calculate an alternate route to avoid part of the originally calculated route to the destination. The system starts the calculation from the car's current position.

Detour – submenu

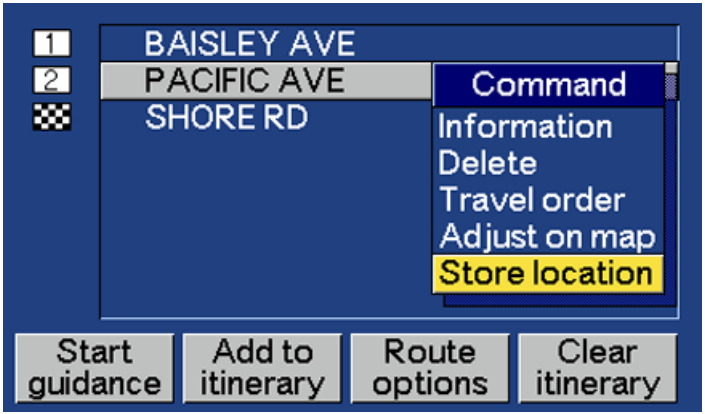
[*Detour*]

Select the length of the detour using **UP** or **DOWN** and press **ENTER**.

NOTE! This function is only available when a destination has been specified.

Store locations

Store a location **42**
Stored locations **43**



Store location
PACIFIC AVE
Enter a name and select a symbol:
PACIFIC AVE
A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z ␣ , ( )
1 2 3 4 5 6 7 8 9 0 More chars.
Store location

Store a location

Save a specified destination

[*Destination*]

A destination can be stored so that it does not have to be entered again. Up to one hundred destinations can be stored.

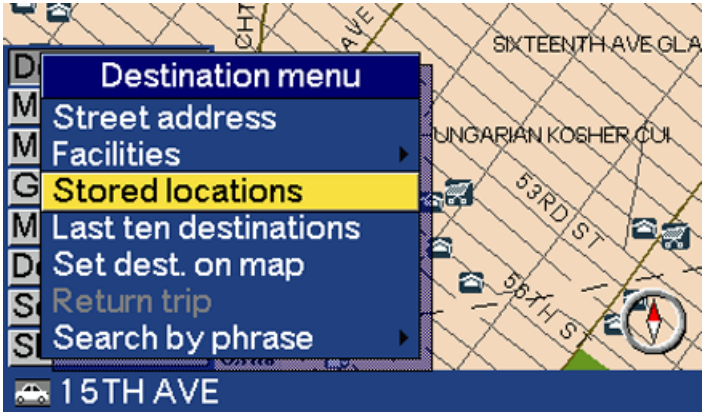
Scroll to a destination using **UP** or **DOWN** and press **ENTER** or **RIGHT** to access the submenu. Select *Store location* using **UP** or **DOWN** and press **ENTER**.

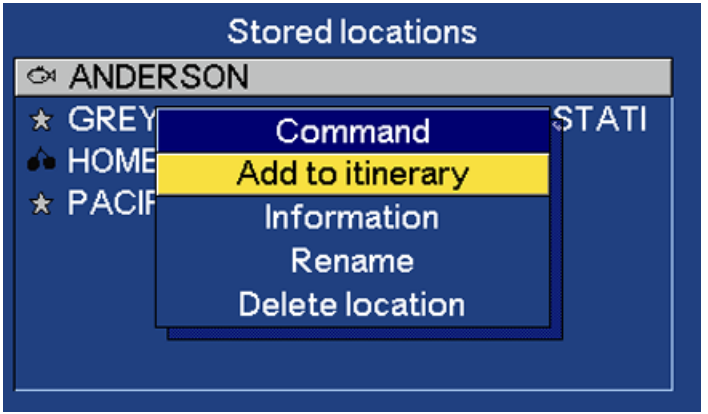
It is also possible to store a location using the *Map scroll* function (see page 47).

Symbols and names

[*Destination*] [*Store location*]

The stored locations are marked on the map by symbols. Scroll **UP** to the symbols to select and press **ENTER.** The name of the stored destination is indicated automatically. The original name can be deleted using **BACK** and a new name specified.
Scroll to *Store location* using **UP** or **DOWN** and press **ENTER**.





Stored locations

Saved destinations

[*Destination*]

Select *Stored locations* using **UP** or **DOWN** and press **ENTER**. A stored location is a destination saved earlier (place of work, favorite restaurant, rest area, etc.).

Read more on the different types of destination and search paths on page 20.

Submenu for stored locations

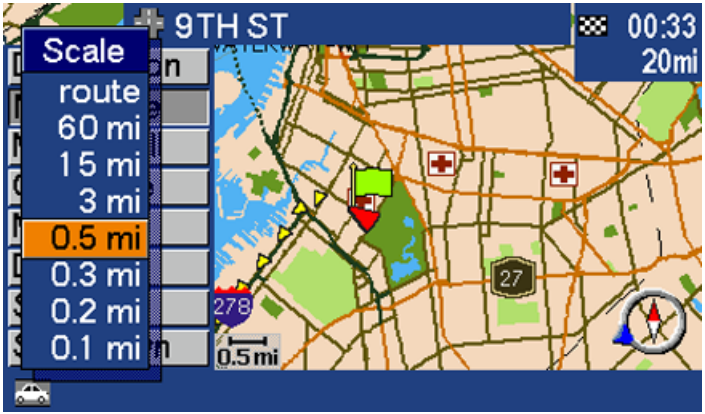
[*Destination*] [*Stored locations*]

Choose between the stored locations using **UP** or **DOWN** and press **RIGHT** to obtain the submenu.

Add to itinerary: Adds the stored location to the itinerary.
***Information*:** Gives details on the stored location.
Rename: Change icon or name of stored location.
Delete location: Deletes a stored location.

Map

Map scale	**46**
Scale - route	**46**
Map scroll	**47**
Map menu	**49**
One map - two maps	**49**



Map scale

[*Map scale*]

Select *Map scale* using **UP** or **DOWN** and press **ENTER**.

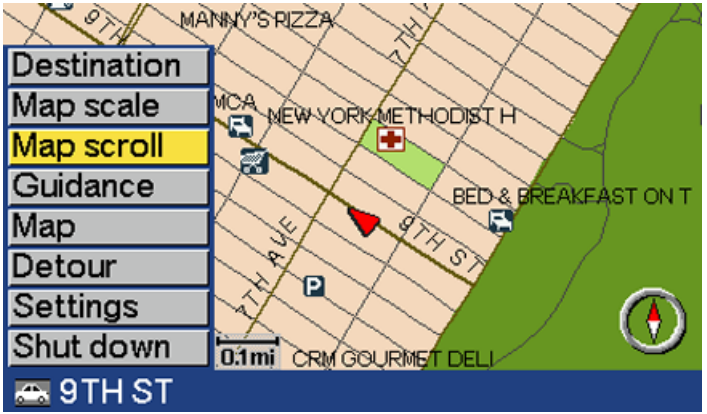
Choose between different levels, from the most detailed scale of 0.1 miles up to the 60 mile scale. The scale is displayed on the lower part of the map. Select scale using **UP** and **DOWN** and press **ENTER**.

If a change of scale is desired when two maps are displayed on the screen (see page 49), use **RIGHT** or **LEFT** to scroll to the map whose scale is to be changed.

Scale - route

[*Map scale*] [*route*]

Select *route* in *Map scale* using **UP** or **DOWN** and press **ENTER** to view the entire route from start to final destination.
The thick red line indicates the route.



Map scroll

Move the pointer using the NAVIGATOR

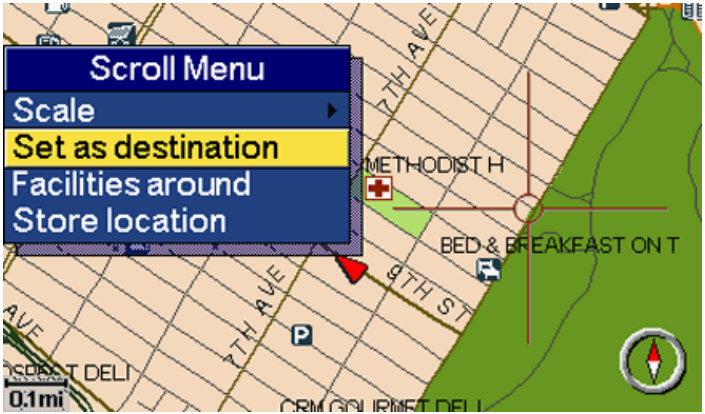
[*Map scroll*]

Select *Map scroll* to view an area outside the screen image. Scroll using **UP** or **DOWN** and press **ENTER**.

Pointer

[*Map scroll*]

The pointer can be freely moved across the entire map in a detailed scale using the **NAVIGATOR.** The center of the pointer specifies the current location on the map.
Move the pointer using the **NAVIGATOR** to the desired location on the map and press **ENTER** to obtain the map scrolling menu.

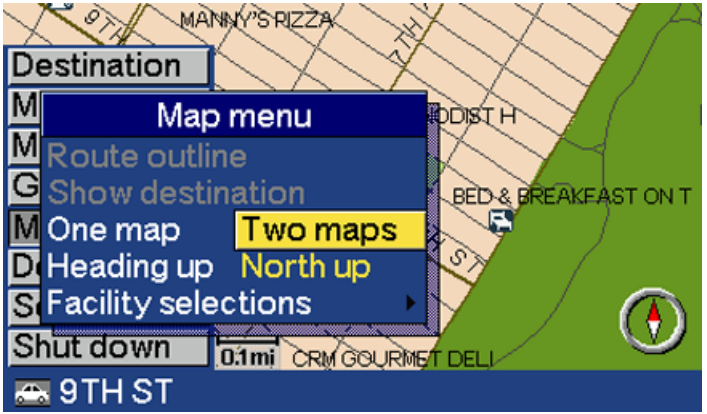


Map scrolling menu

[*Map scroll*] *Map scroll menu*

Select options using **UP** or **DOWN** and press **ENTER**

Scale: Function to temporarily change the scale. Press **BACK** to return to the original scale, and to return to the car's current position on the map.
***Set as destination*:** Choose location on the map as a destination or intermediate destination.
Facilities around: The system searches for facilities around a chosen point on the map. The system searches in a circle with a radius of approximately 1 mile (2 km). If fewer than 40 facilities are found, the radius is increased to a maximum of 65 miles (100 km).
Store location: Save a location on the map.



Map menu

[*Map*]

Select *Map* using **UP** or **DOWN** and press **ENTER** to obtain the map menu.

***Route outline*:** Displays a list of the approaching guidance points.
***Show destination*:** Displays a map image around the destination.
***One map*/*Two maps*:** Choose between displaying one or two maps on the screen.
***Heading up*/*North up*:** Choose whether north or the direction of travel is to be uppermost on the map.
Facility selections: Choose which facility symbols are to be displayed on the map image.

One map - two maps

[*Map*] [*Two maps*]

Scroll to *One map*/*Two maps* using **UP** or **DOWN.** Select *Two maps* using **RIGHT** and press **ENTER** to obtain two map images.

Different degrees of detail can be selected for each map. This can be of useful for obtaining information on the area immediately around the car on one map, while also displaying a larger area on the other map

The system selects the original map image when you switch back to a one map screen.

Navigation settings

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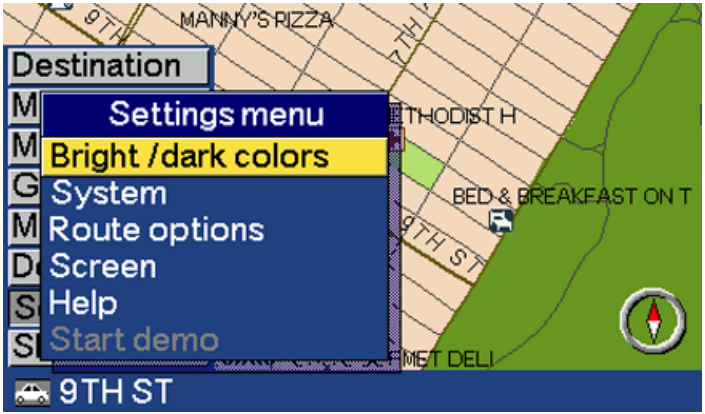
Screen settings 53
Help settings 54
Demo (simulation) 54



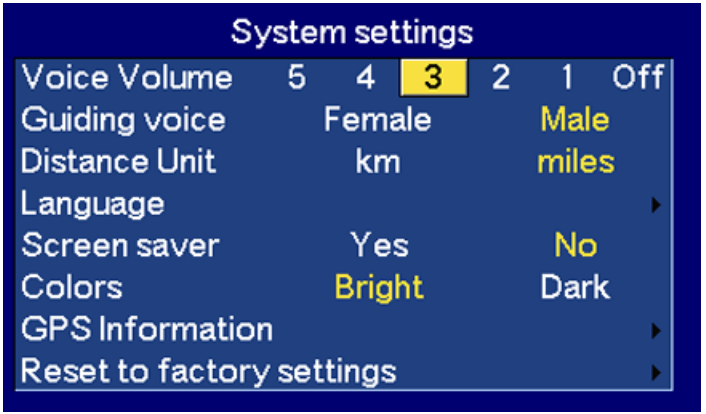
Settings menu

[*Settings*]

The VNS system is supplied with basic settings that can be changed. Select *Settings* using **UP** or **DOWN** and press **ENTER**.

***Bright/dark colors*:** Press **ENTER** to change the background colors of the map. Light intensity can also be set using the control for the instrument lighting.
***System*:** See the information in the right column.
***Route options*:** See page 53.
***Screen*:** See 53.
***Help*:** See page 54.
Start demo: See page 54.

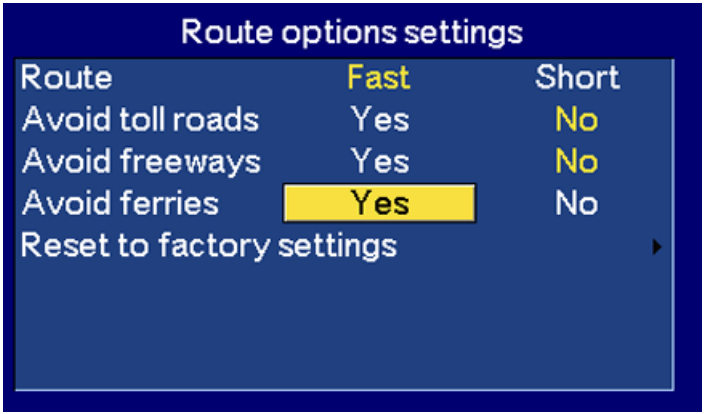
Select options in each settings menu using **UP** or **DOWN.** Press **RIGHT** to access submenus, which are indicated by a black arrow. Select settings using the **NAVIGATOR.** Confirm with **ENTER**.



System settings

[*Settings*] [*System*]

***Voice volume*:** 1 is minimum and 5 is maximum volume. Select *Off* to switch off voice guidance.
***Guiding voice*:** Choose between a female or male guidance voice.
***Distance unit*:** Choose between kilometers or miles.
***Language*:** Choose the language for voice messages and menus.
Screen saver: If the screen saver is activated the screen goes blank after 30 seconds and relights automatically e.g when guidance information is provided.
Colors: Select colors. *Bright* colours are suitable in daylight. *Dark* colours are suitable for darkness and with strong sunlight.
***GPS information*:** Displays the number of satellites from which the system is presently receiving signals, as well as current position.
Reset to factory settings: Reset to basic settings.

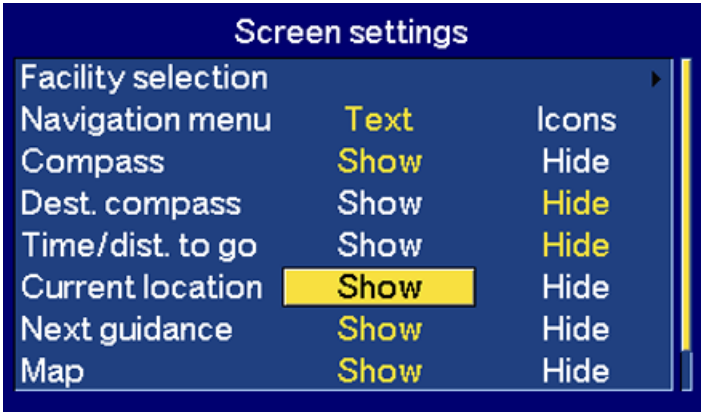


Route options settings

[*Settings*] [*Route options*]

***Route type*:** Select fastest or shortest route at route calculation. If *Fast* is selected the system chooses the most major roads available. If *Short* is selected the system calculates the shortest route possible to the destination, using all types of roads.
***Avoid toll roads*:** Choose whether toll roads are to be avoided when the route is calculated.
***Avoid freeways*:** Choose whether freeways are to be avoided at route calculation.
***Avoid ferries*:** Choose whether car ferries are to be avoided at route calculation.
Reset to factory settings: Reset to basic settings.

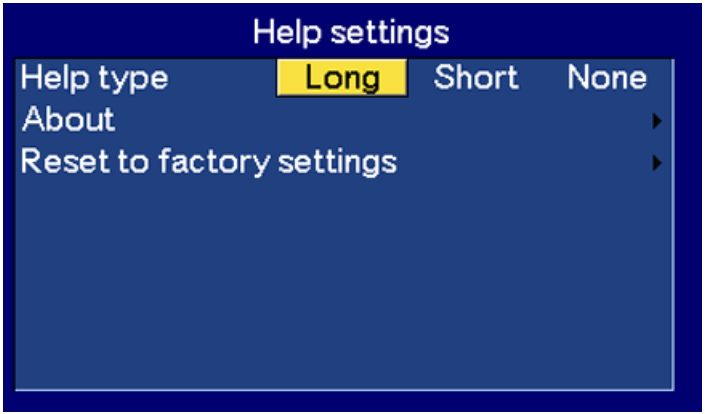
NOTE! For technical reasons the system only uses major roads when calculating routes over longer distances. When *NO* is selected for toll roads and freeways, roads of these types will be avoided as far as possible and only used if no other reasonable alternative is available.



Screen settings

[*Settings*] [*Screen*]

***Facility selection*:** This function makes it possible to set the facility symbols to be shown or hidden on the map.
Navigation menu: Choose between displaying the main menu in the form of *Text* or *Icons*.
***Compass*:** Choose whether the compass is to be displayed on the screen.
***Dest. compass*:** Points in the direction of the destination.
***Time/dist. to go*:** Indicates estimated time and distance to the destination.
***Current location*:** Choose whether the name of the street on which the car is currently traveling is to be displayed on the lower part of the screen.
***Next guidance*:** Information on the next guidance point such as distance to it, street name, road sign information and direction to take at this point.
***Map*:** If the map is hidden the system guides with an arrow.
Reset to factory settings: Reset to basic settings.



Help settings

[*Settings*] [*Help*]

Help type: Select setting for help texts.
***About*:** Displays information on VNS software, map version etc.
Reset to factory settings: Reset to basic settings.

Demo (simulation)

[*Settings*]

Select *Start demo* using **UP** or **DOWN** and press **ENTER.** This feature demonstrates the system by simulating a trip to a specified destination. It is possible to apply all settings during the demonstration. *Stop demo* interrupts the simulation.

NOTE! For the demonstration to work a destination must be specified and the car must be at a standstill.

Symbols on the map

Symbols - facilities **56**

Symbols - facilities

Airport

Amusement park

ATM

Automobile club

Bank

Bowling

Bus station

Car rental

Casino

City center

City hall

Community center

Commuter rail station

Compressed natural gas

Conven./exhib. center

Court house

Ferry terminal

Gas station

Golf course

Grocery store

Historical monument

Hospital

Hotel

Ice skating

Library

Liquid petroleum gas

Major companies

Marina

Movie theater

Museum

Night life/music club

Park & Ride

Parking garage

Parking lot

Police station

Public sport airport

Recreation area

Rest area

Restaurant

School

Shopping center

Ski resort

Sports center

Sports complex

Theater/Opera

Toll booth

Tourist attraction

Tourist information

Train station

University/college

Volvo retailer

Winery

Questions and answers

Questions and answers **60**

Questions and answers

Q - The car's position on the map is incorrect or jumps

A - The Global Positioning System (GPS) indicates the car's position with an accuracy of about 65 feet (20 meter). Accuracy may be even less when driving on roads lying parallel to another road, winding roads, roads on several levels and also after driving a long distance without making any distinct turns. Tall buildings and mountains, tunnels, viaducts, over/underpasses etc also have a negative affect on the reception of GPS signals, which means that the estimation of the car's position may not be precise.

Q - VNS does not always calculate the fastest/shortest route.

A - When calculating a route, distance, width of road, type of road, number of right or left turns, traffic circles etc are all taken into account when calculating the best theoretical route. Experience and local knowledge may, however, lead to a more effective choice of route.

Q - The VNS system chooses toll roads, freeways, and ferries even though I have opted to avoid them.

A - When calculating routes over longer distances, for technical reasons the system can only use major roads. If you select *NO* for toll roads, freeways, and ferries, they will be avoided as much as possible, but will be used if no other reasonable alternative is available.

Q - After being transported, the car's position on the map is incorrect.

A - If the car is transported, for example by ferry or train, or in such a way as to impede the reception of GPS signals, it can take up to 5 minutes to calculate the car's new position correctly.

Q - The car's position on the map is incorrect after the car battery has been disconnected.

A - If power has been cut from the GPS antenna, it can take more than 15 minutes for the GPS signals to be received correctly and the car's position to be calculated.

Q - The map image does not correspond with actual conditions.

A - Factors such as the constant expansion and rebuilding of the road network, new traffic regulations constantly being introduced etc mean that the digital map database is not always complete. New maps are periodically developed and point of interest information updated. Further information is available from your Volvo retailer.

Q - The scale of the map sometimes changes.

A - The scale is affected by the speed of the car. At speeds in excess of approximately 85 mph (140 km/h), the largest degree of magnification is 0.2 miles (250 meters). When speed is reduced to 75 mph (120 km/h), the system can once again show all degrees of magnification. If no detailed map information is available, the largest degree of magnification is 0.3 miles (500 meters), regardless of speed.

> **⚠ WARNING!**
>
> Always observe posted speed limits.

Q - One or more menu options are not available.

A - Go to *System options* and select *Reset to default* to return to factory settings.

Q - The VNS system indicates the route on which I am already driving even though I select Calculate new route or Detour.

A - The system cannot find a better alternative to the current route.

Q - The car symbol on screen jumps forward or spins.

A - The system may need a few seconds to sense the position and movement of the car before you drive off. Switch off the VNS system and the ignition. Switch on the ignition again and restart VNS, but remain at a standstill for approximately 15-20 seconds before driving off.

I am planning a long trip but do not want to specify destinations in the cities that I will be passing. What is the easiest way to set up an itinerary?

Select intermediate destinations on the map using the pointer. The system will automatically guide you to the final destination even if you drive past the intermediate destinations.

How can I select a destination that is not on the map-DVD currently being used by the system?

Select the destination in the usual way. The system will prompt you to change DVDs if necessary.

NOTE: Although the entire network of roads is shown on both DVDs, detailed information is only available on the disc intended for the geographic area in which the destination is located.

The system now includes several map DVDs. How do I know which one to use?

Primarily use the DVD that contains detailed information of the area in which you normally drive. The is stated on the DVD's jacket and is printed on the disc.

NOTE:

- The system will prompt you to change DVDs when necessary.
- If you are planning a long trip, be sure to have all of the maps DVDs in the car.

Will my itinerary disappear if I change DVDs?

No, your itinerary will remain in the navigation system's memory until you delete it.

My map-DVDs are not up-to-date.

Consult your authorized Volvo retailer for the latest information.

Why are street addresses not available for destinations in another state or province?

Although the entire network of roads is shown on both DVDs, detailed information is only available on the disc intended for the geographic area in which the destination is located.

What should I do if my itinerary goes through an unverified area[1]?

The system will provide information if the itinerary takes you through an unverified area.

NOTE: In such areas, the system may be unable to provide accurate guidance.

⚠ WARNING!

Navigating safely

Always use good judgment when following navigation system guidance, and do not follow guidance that seems contrary to your own best judgment.

1. For example, newly constructed residential areas, shopping districts, re-routed roads, etc. that are not currently reflected on your navigation system's DVDs. Consult your authorized Volvo retailer for the most up-to-date information.

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